Pending claims and Proposed Amendments for Telephone Interview with Examiner Baker on August 15, 2002 at 2:00pm Serial No.:08/963,288

- 1. (Seventh Amendment) An in vitro method of enhancing the transcription of a gene in a DNA construct when the DNA construct is incorporated into the genome of a eukaryotic host cell, the method comprising:
- (a) providing a DNA construct comprising a structural gene for a desired protein or polypeptide, a gene promoter upstream of and operably liked to the structural gene, and six copies of an enhancer element upstream of the promoter;
- (b) transfecting the eukaryotic host cell to incorporate the DNA construct into the genome of the host cell; and
- (c) exposing the DNA construct to a hormone selected from the group consisting of lactogenic hormones, somatogenic hormones and mixtures thereof;

wherein the enhancer element comprises the nucleotide sequence TTCTGAGAA, with the proviso that the nucleotide sequence does not contain the DNA sequence of nucleotide sequence SEQ ID NO:1, and wherein the enhancer element is responsive to both lactogenic hormones and somatogenic hormones.

- 2. The method according to claim 1, wherein the enhancer element consists essentially of the nucleotide sequence TTCTGAGAA.
- 5. (Sixth Amendment) An enhancer element which when used in a DNA construct for transfection of a eukaryotic host cell is responsive to hormonal stimuli, said enhancer element

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consisting essentially of the nucleotide sequence TTCTGAGAA, wherein the enhancer element is responsive to both lactogenic hormones and somatogenic hormones when used in a DNA construct [transfected] incorporated into the genome of a eukaryotic host cell.

- 7. The enhancer element of claim 5, wherein the enhancer element is responsive to signals generated from both growth hormone and prolactin receptors.
- 8. (Fifth Amendment) An expression vector comprising a structural gene encoding a desired protein or polypeptide and a promoter, wherein the vector further comprises six enhancer elements, and further wherein [at least one of] <u>each of</u> the enhancer elements [consists essentially of] <u>comprises</u> the nucleotide sequence TTCTGAGAA.
- 9. An expression vector according to claim 8, wherein the promoter is a thiamine kinase promoter.
- 10. (Sixth Amendment) The expression vector according to claim 9, wherein at least one of the enhancer [element] elements comprises [at least one copy of] the nucleotide sequence SEQ ID NO:1.
- 11. An isolated eukaryotic host cell containing the expression vector according to claim 8.
- 15. (Third Amendment) The enhancer element of claim 5, wherein the enhancer element is responsive to signals generated from both growth hormone and prolactin receptors when used in a DNA construct [transfected] <u>incorporated</u> into the genome of a eukaryotic host cell.

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- 16. An isolated eukaryotic host cell containing the expression vector according to claim 9.
- 17. An isolated eukaryotic host cell containing the expression vector according to claim 10.
- 19. (Fifth Amendment) An in vitro method of enhancing the transcription of a gene in a DNA construct, the method comprising:
- (a) providing a DNA construct comprising a structural gene and a promoter upstream of the structural gene,
- (b) [providing] <u>incorporating</u> [the DNA construct with] the nucleotide sequence consisting of TTCTGAGAA into the <u>DNA construct</u> upstream of the promoter;
- (c) transfecting a eukaryotic host cell to incorporate the DNA construct into the genome of the host cell; and
- (d) exposing the DNA construct to a hormone selected from the group consisting of lactogenic hormones, somatogenic hormones and mixtures thereof.
- 20. A method according to claim 19, wherein the hormone is selected from the group consisting of growth hormone, prolactin, placenta lactogen and mixtures thereof.
- 21. A method according to claim 20, wherein the hormone is selected from the group consisting of prolactin, placenta lactogen and mixtures thereof.
- 23. (Fourth Amendment) An enhancer element responsive to a hormone selected from the group consisting of lactogenic hormones, somatogenic hormones and mixtures thereof

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when the enhancer element is <u>adapted for use [used]</u> in a DNA construct for [transfection] <u>incorporation into the genome</u> of a eukaryotic host cell; wherein the enhancer element consists essentially of the nucleotide sequence TTCTGAGAA.

- 24. An enhancer element according to claim 23, wherein the hormone is selected from the group consisting of growth hormone, prolactin, placenta lactogen and mixtures thereof.
- 25. An enhancer element according to claim 24, wherein the hormone is selected from the group consisting of prolactin, placenta lactogen and mixtures thereof.
- 26. An enhancer element according to claim 25, wherein the enhancer element consists of the nucleotide sequence TTCTGAGAA.
- 27. (Fifth Amendment) An expression vector comprising a structural gene encoding a protein, a promoter, and at least one enhancer element consisting essentially of the nucleotide sequence TTCTGAGAA, wherein the enhancer element is incorporated into the expression vector separately from the structural gene [within the structural gene by transfection].
- 28. An expression vector according to claim 27, wherein the enhancer element consists of the nucleotide sequence TTCTGAGAA and is responsive to a hormone selected from the group consisting of growth hormone, prolactin, placenta lactogen and mixtures thereof.
- 29. An expression vector according to claim 27, wherein the enhancer element is responsive to a hormone selected from the group consisting of prolactin, placenta lactogen and mixtures thereof.

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- 30. (Fourth Amendment) A DNA construct comprising a structural gene encoding a protein, a promoter, and at least one enhancer element consisting essentially of the nucleotide sequence TTCTGAGAA, wherein the enhancer element is incorporated into the DNA construct separately from the structural gene [within the structural gene by transfection].
 - 31. A DNA according to claim 30, comprising from one to six enhancer elements.
- 32. A DNA according to claim 30, wherein each enhancer element consists of the nucleotide sequence TTCTGAGAA.
- 39. A method according to claim 1, wherein the hormone is selected from the group consisting of growth hormone, prolactin, placenta lacotgen and mixtures thereof.
 - 40. A method according to claim 39, wherein the hormone is prolactin.
- 44. (Fourth Amendment) An isolated DNA construct comprising a promoter operably linked to [,] a structural gene downstream from said promoter, and six repeats of an enhancer element upstream from said promoter, wherein the enhancer element consists essentially of the sequence TTCTGAGAA.
- 45. An isolated DNA construct according to claim 44, wherein the enhancer consists of the sequence TTCTGAGAA.
- 49. An in vitro method according to claim 19, wherein the transfecting step comprises transfecting the eukaryotic cell with a plasmid comprising the DNA construct.
- 52. The method according to claim 2, wherein the enhancer element consists of the nucleotide sequence TTCTGAGAA.

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53. An enhancer according to claim 5, consisting of the nucleotide sequence TTCTGAGAA.

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